

SpectrAlert®

Chimes and Chime/Strobes



Description

System Sensor's SpectrAlert® wall-mount electronic chimes and chime/strobes offer sixteen different field-selectable chime tones, each with three volume settings. Intended for private-mode applications, the SpectrAlert® chime meets UL 464 and the chime/strobe meets UL1971.

Flexibility. SpectrAlert® products offer the flexibility to meet a broad range of requirements. SpectrAlert® chimes and chime/strobes feature sixteen field-selectable electronic tones, with three different volume levels for each. Chime/strobe models are available in 15, 15/75, 75, and 110 candela configurations.

Installation. SpectrAlert® chimes and chime/strobes offer DIP switch tone selections to simplify field configuration. In addition, each device mounts to standard-depth backboxes for greater installation flexibility. Small-footprint or surface-mount accessory mounting plates are available for the chime.

Aesthetics. SpectrAlert® chimes and chime/strobes incorporate the same stylish, low-profile design of other SpectrAlert® wall-mount products, and are available in red and white to meet specific installation requirements.

SpectrAlert® and Sync•Circuit™ are trademarks of System Sensor.



Features

- Chime meets UL 464 requirements for private mode.
- Strobe meets UL 1971 requirements.
- Field-selectable tones:
 - Repeating 1-second chime.
 - Repeating 1/4-second chime.
 - Temporal 3 chime.
 - Single-stroke chime.
 - Continuous / 3 kHz.
 - Continuous / 500 Hz.
 - Temporal 3 / 3 kHz.
 - Temporal 3 / 500 kHz.
- Three volume options.
- Mount to standard backboxes.
- Models available in red or white.

Listings

Listings and approvals below apply to the SpectrAlert® Chimes and Chime/Strobes. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: file S4011.
- MEA approved: file 291-01-E, 397-00-E (CH1224W).
- CSFM approved: file 7135-1209:216, 7135-1209:206 (CH1224W).

Engineer's Specifications

Electronic chime and chime/strobe shall be a System Sensor SpectrAlert® model _____. The chime shall be Listed to UL 464 for fire protective signaling systems and shall perform in accordance with private mode emergency and general utility signaling. The strobe shall be listed to UL1971 and shall be approved for fire protective signaling. The strobe shall comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The chime shall have sixteen field-selectable tone options, each with three volume settings. These options shall be activated through the appropriate settings on a DIP switch located on the rear of the unit. The chime shall be capable of mounting to a standard 4" x 4" (10.16 x 10.16 cm) x 1.5" (3.81 cm) backbox, or a single-gang 2" (5.08 cm) x 4" (10.16 cm) x 1.875" (4.763 cm) backbox. The chime/strobe shall be capable of mounting to a standard 4" x 4" (10.16 x 10.16 cm) x 1.5" (3.81 cm) backbox. The chime shall operate at 12 or 24 volts and the chime/strobe shall operate at 24 volts. Both chime and chime/strobe shall be powered from a non-coded power supply and shall be capable of operating from either a regulated DC or full-wave rectified, unfiltered power supply. Chime and chime/strobe shall have an operating temperature range of 32°F to 120°F (0°C to 49°C).



Ordering Information

Description	Red	White	Candela	Voltage
Chime/Strobe	CH24MC	CH24MCW	15, 15/75, 30, 75, 110	24
Surface Mount Backbox Skirt	BBS-CHSR	BBS-CHSW	N/A	N/A
Chime only	CH1224	CH1224W	N/A	12/24
Small Footprint Mounting Plate	S-MP	S-MPW	N/A	N/A
Surface Mount Back Box Skirt	BBS-CHSR	BBS-CHSW	N/A	N/A
Universal Mounting Plate (Replacement)	D-MP	D-MPW	N/A	N/A

Electronic Chime Current Draw, 8-33 VDC: 10-61 mA

Tone	8 Volts			12 Volts			24 Volts			33 Volts		
	Low	Med	High	Low	Med	High	Low	Med	High	Low	Med	High
12 K Repeating 1-Second Chime	51	52	55	53	54	56	57	61	52	59	61	64
10 K Repeating 1-Second Chime	48	50	54	51	52	54	54	57	60	57	60	62
0.8 K Repeating 1-Second Chime	47	47	53	49	51	52	53	55	58	55	58	60
12 K Repeating 1/4 Second Chime	53	54	58	55	57	59	59	61	64	61	63	66
10 K Repeating 1/4 Second Chime	49	50	54	51	53	54	55	57	60	57	59	62
0.8 K Repeating 1/4 Second Chime	48	50	53	50	52	53	54	56	59	56	58	61
12 K Temporal Chime	51	52	56	52	54	55	55	57	61	58	60	63
10 K Temporal Chime	48	49	54	49	51	51	53	55	58	55	57	60
0.8 K Temporal Chime	46	47	51	48	50	51	52	54	57	54	56	59
12 K Single-Stroke Chime	52	53	58	52	54	56	56	58	62	58	60	64
10 K Single-Stroke Chime	47	48	53	50	51	59	53	55	58	56	58	62
0.8 K Single-Stroke Chime	47	48	53	49	50	52	54	56	60	56	59	61
3.0 K Continuous Electromechanical	56	57	61	59	60	67	65	68	70	68	70	74
3.0 K Temporal Electromechanical	51	52	56	53	54	61	56	59	62	58	60	64
0.5 Continuous Electromechanical	48	49	53	51	52	56	54	57	60	56	55	61
05 K Temporal Electromechanical	45	47	51	47	49	53	51	52	58	52	54	60

Sound Output
Note: Factory default setting is 1.0 K Repeating 1-Second Chime set at High Volume.

Strobe Current Draw

Model No.	Candela Setting	FWR Operating Current-Strobe (mA RMS)	DC Operating Current-Strobe (mA RMS)
CH24MC Chime/Strobe	15	64	59
	15/75	74	69
	30	93	90
	75	158	160
	110	208	209

*Average current draw varies with tones selected. Current ratings per System Sensor testing at 12 VDC and 24 VDC. Add current values when connecting in parallel.



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Specifications

Input terminals

12 to 18 AWG (3.25 mm² to 0.51 mm²).

Dimensions

Chime with mounting plate: 5.00" (12.7 cm) high x 5.625" (14.288 cm) wide x 2.25" (5.715 cm) deep.

Chime with small-footprint plate: 3.375" (8.573 cm) wide x 5.625" (14.288 cm) high x 2.938" (7.461 cm) deep.

Chime/strobe: 5.00" (12.7 cm) high x 6.938" (17.621 cm) wide x 2.438" (6.191 cm) deep.

Mounting

Chime: single-gang or 4" x 4" (10.16 x 10.16 cm) backbox.

Chime/strobe: 4" x 4" (10.16 x 10.16 cm) backbox.

Weight

Chime: 0.5 lb. (226.8 g).

Chime/strobe: 1.5 lb. (680.4 g).

Operating temperature, indoor

32°F to 120°F (0°C to 49°C).

Maximum humidity

93% (± 2%) RH.

Voltages, nominal

Chime: 12 or 24 VDC and FWR unfiltered.*

Chime/strobe: 24 VDC and FWR unfiltered.*

Operating voltage range:*

Chime: 8 – 33 V.

Chime/strobe: 16 – 33 V.

*Must be powered with a non-coded power supply.

Sound output, UL reverberant, factory defaults:

At 12 VDC: 54 dBA.

At 24 VDC: 60 dBA.

Factory default settings are 1.0K repeating 1-second chime at high volume. Refer to table on page 2 for levels for each tone selection.

U.S. Patent Numbers

5,593,569. 5,914,665. 5,850,178.
 5,598,139. 6,049,446. 6,127,935.

Specifications and wiring information are provided for information only and are believed to be accurate. Gamewell assumes no responsibility for their use. Data and design are subject to change without notice. Installation and wiring instructions shipped with the product shall always be used for actual installation. For more information, contact Gamewell.